

MISSOURI DEPARTMENT OF NATURAL RESOURCES MISSOURI OIL AND GAS COUNCIL

MAY 0 7 1998 M OGC-31

INJECTION WELL PERMIT APPLICATION
(TO DRILL, DEEPEN, PLUG BACK, OR CONVERT AN EXISTING WELL)

LAV 0.7 1009

NOTE ► Per Tes	rmit approval st results revi	for drilling only, ne ewed and official no	ot injection. Apotification giver	pproval or denial for n.		ermined after M Sas Council	echanical Integrity
X APPLICAT		L DEEF	PEN 🗆	PLUG BACK	MIC OIL O	☐ CONVERSI	ON
Dange Proc		Co Tno		The state of the s	The second secon	DATE	
Pense Bros		CO THE	CITY			STATE	ZIP CODE
800 Newber	ry St			Fredricktown		MO	63645
DESCRIPTION	OF WELL A	ND LEASE	ige la Paraultip by a con-				
Honsinger			WEL	L NUMBER 3-W		950	
WELL LOCATION			(GIVE FOOTAG	E FROM SECTION LINES)		1 700	
	272	0FT. FROM (N)	S) SEC. LINE	2300) FT.	FROM (E) (W) SEC.	LINE
WELL LOCATION		SECTION	TOWNSHIP	RANGE		COUNTY	
CONT. HOLLES		5	43 N	33w	oure and -	Cass	are runingerent to
	PROPOSED LOC	OSED LOCATION TO PERATION TO NEAREST DE ROTARY OR CABLE TOOLS ROTARY OR CABLE TOOLS	DRILLING, COMPLE ORILLING CONTR Town 0	TED OR APPLIED — FOR ACTOR, NAME AND ADDRESS 11 Co.	WELL ON THE	APPROX. DATE WORK	
NUMBER OF ACRES IN	15105			W. 287, Paola,			10
192				NG THIS WELL, COMPLE	TED IN OR DRIL	LING TO THIS RESE	RVOIR12
		NUMBER OF ABANDON OR MORE WELLS DRILL		THE COLUMN TWO IS NOT THE OWNER, THE PARTY NAMED IN COLUMN TWO IS NOT THE OWNER, THE OWN	N	O. OF WELLS: PRO	DUCING 12
ADDRESS							NACTIVE
STATUS OF	BOND	☐ SINGLE WELL AMOUNT \$	[[X]	BLANKET BOND AMOUNT \$20,000	0.0°		ON FILE □ ATTACHED
				1			
PROPOSED CAS	SING PROGRA	M WT/FT	AMT, OF CEN	APPROVED CASII	NG — TO BE F	WT/FT	AMT. OF CEM.
20'	$6\frac{1}{4}$	14#	3	1. AMOUNT	11	VVI/FI	AMT. OF CEM.
300	2 7/8		40	i,	i.	tţ	
		Lam the Part			T	0:1 0-	
, the undersign		ram me				n Oil Co.	
				this report, and that and complete to the			der my supervisio
SIGNATURE RUS	Du To	seen				9-5-97	
ERMIT NUMBER	2065 6	2	1 -	ER'S LOG REQUIRED ANALYSIS REQUIRED IF		LOGS REQUIRED IF	RUN O. REQUIRED IF RUN
PPROVED/B	5/14/9	8	SAMPL	LES REQUIRED LES NOT REQUIRED			
Jane	- Hooly	Williami	GARS!	R SAMPLES REQUIRED A			
NOTE THI		Y THE OIL AND G	AS COUNCIL	THER PERSON OR DOES NOT CONST SEMENT OF THE Q	TITUTE END	ORSEMENT OF	THE GEOLOGIC

						4
			of the			
Company confirm that an approved	drilling permit	has been o	btained by the d	owner of th	nis well. Council approva	of this permi
will be shown on this form by present	ce of a permit i	number and	signature of aut	horized C	ouncil representative.	
DHILLER'S SIGNATURE	Exp. true EXM		DATE			
PROPOSED OPERATIONS DATA						
PROPOSED AVERAGE DAILY INJECTION,	PRESSURE	200	PSIG, RATE	25	BPD/GPM, VOLUME	BBL/GA
APPROVED AVERAGE DAILY INJECTION, (TO BE FILLED IN BY STATE GEOLOGIST).	PRESSURE	200	PSIG, RATE	25	BPD/GPM, VOLUME	BBL/GA
PROPOSED MAXIMUM DAILY INJECTION,	PRESSURE	350	PSIG, RATE	50	BPD/GPM, VOLUME	BBL/GA
APPROVED MAXIMUM DAILY INJECTION, (TO BE FILLED IN BY STATE GEOLOGIST).	PRESSURE	350	156	50	·	
ESTIMATED FRACTURE PRESSURE/GRADIEN			PSIG, RATE		BPD/GPM, VOLUME	BBL/GA
DESCRIBE THE SOURCE OF THE INJECTION F		LONE				PSI/FOC
645 (10 H) 10 HW 10 H				er de hode		
William M.	The second secon					
GIVE AN ACCURATE DESCRIPTION OF THE IN				**************************************	THE STREET STREET, THE STREET STREET,	
AND PERMEABILITY.					THUGAN	
GIVE AN ACCURATE DESCRIPTION OF THE CO	ONFINING ZONES	INCLUDING I	LITHOLOGIC DESCR	RIPTION, GE	OLOGIC NAME, THICKNESS, D	EPTH, POROSITY
						** (more than or produced discount for a constant many state of
	will be only to					
SUBMIT ALL AVAILABLE LOGGING AND TESTI	NG DATA ON THE	WELL	<u> </u>			
GIVE A DETAILED DESCRIPTION OF ANY WE 1/2 MILE RADIUS AROUND WELL). INCLUDE TH	LL NEEDING CO	BRECTIVE AC	CTION WHICH PENE D CORRECTIVE AC	ETRATES TH	E INJECTION ZONE IN THE	AREA OF REVIEW
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					11/19	
						1
TO TO THE PROPERTY OF THE PARTY		1 /2 /2m		2.	the all the states	
	M 100 100 100 100 100 100 100 100 100 10					
O 780-0212 (10-87)						



MISSOURI DEPARTMENT OF NATURAL RESOURCES

MISSOURI OIL AND GAS COUNCIL WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

C MEAN AVELL ()	TOTALOVER	CO DELL'C	IN LIFLUGE	ACK EN I		M W SAME	RESERV	OIR LI DIFF	FERENT	RESERVOI	R LIO	L GAS DR
OWNER	W.					ADDRESS						
	ros. Dri	lling	Co., Inc	2.		800	Newb	erry St.	. F	rederio	cktown	n, Mo. 63645
LEASE NAME		TO SECURITION OF STREET, SECURITION OF SECUR		*****************		WELL NUME					WE CHE KIND IN COLUMN	
Honsinger						3-W						
LOCATION				Or other property of the second	Marriagnes por timbra estanda funda e abiliata.			SEC. TWP. A	ND RANG	OR BLOCK	AND SUF	IVEY
2720' FNL 2	2300' FE1	-						5-T43	3N-R3	3W		
COUNTY		PERMIT N	UMBER (OGC-3		-			1				***************************************
Cass					206	50						
DATE SPUDDED			AL DEPTH REAC	HED DA	TE COMPL	ETED READY T	0	ELEVATION (DF, RKR,	RT, OR Gr.)	ELEVATI	ON OF CASING HD.
9-22-97		9-1	2-97	PHO	DDUCE OR	INJECT9-1	2-97	FEET 95	00		FLANGE	FE
TOTAL DEPTH		PLUG BAC	K TOTAL DEPTH	1				J				r c
295												
PRODUCING OR INJECT	TION INTERVAL	(S) FOR TH	IS COMPLETION			ROTARY TO	OF USED	(INTERVAL)	295		CABLET	OOLS USED (INTERVA
248-258						DRILLING FL	UID USED	to water			- TI	
WAS THIS WELL DIRECT	TIONALLY	WAS DIREC	CHONAL SURVE	Y MADE?	MATERIA (C. C.) (C.) (C.) (C.) (C.) (C.) (C.) (IONAL SURVEY	Y FILED?	****	DATEFIL	ED
DRILLED? No												
TYPE OF ELECTRICAL C				TH THE STA	TE GEOLO	GIST)					DATEFIL	ED
Gamma Ray Ne	eutron	enclo	sed									
					CASING	GRECORD						
CASING (REPORT AL	L STRINGS S	ET IN WE	LL - CONDUCT	OR, SURFA				CING, ETC.)		***************************************		
PURPOSE	SIZE HOLE	DRILLED	SIZE CASIN	IG SET	WEIGH	T (LB. FT)	DE	PTH SET	SAG	CKS CEME	NT T	AMOUNT PULLED
				-					-			
Surface	9 3/4	4	$6\frac{1}{4}$		14			20		3		0
					* 1197 / 100 harman data Arrasa							
Completion	5/58		2 7	/8	6.5	5		282	1 :	38		0
	· · · · · · · · · · · · · · · · · · ·			**********	Committee of the second	and the control of th						
	TUBI	NG RECO	RD	-					LINER RI	CORD		
SIZE	DEPTH SET	PAC	CKER SET AT	SIZE	***************************************	TOP		воттом		SACKS CEM	ENI	SCREEN
NO IN.		FEET '	FEET		INCH		FEET		FEET			FEE
	PERFOR.	ATION RE	CORD				ACID, S	HOT, FRACT	URE, CE	MENT SQ	JEEZE R	ECORD
NUMBER PER FEET	SIZE AND	TVDE	DEDTI	LINTERVAL		AMO	AA TAUC	ID KIND OF				
	SIZE AND	1111	CEPTE	1 114 1 1511 1 1 11		1	MATERIA	L USED			DEPTH	NTERVAL
2	2 1/9 01		+ - 2/.0	3-258		25 bb1s	gel1	ed water	r	2/0 25	. 0	
	2 1/8 a1	um je	LS 240	5-236		5 sx s				248-25	08	
								•		,		
					-							
				Antition-maked Languages (miles) bull		RODUCTION						
ATE OF FIRST PRODUC	TION OR INJECT	TION	PRODUCING ME	THOD (INDIC	CATE IF FL	OWING, GAS L	IFT, OR PL	JMPING IF P	UMPING,	SHOW SIZE	AND TYPE	OF PUMP.
									,			
		CHOKE SIZE	OIL PRO	DUCED DUR	ING	GAS PRODUC	ED DURIN	G TEST	WATER I	RODUCED	DURING	OIL GRAVITY
	T 600#				bbls.			MCF	1651		bbls.	API (CORR.
UBING PRESSURE	CASING PRES		CAL'TED RATE C PER 24 HOURS	F PRODUCT	ION	OIL	G	AS	WATER			GAS OIL RATIO
			renza noons			L.	bbls.	MCF	4.1		bbls.	
ISPOSITION OF GAS (ST	TATE WHETHER	VENTED, U	ISED FOR FUEL (OR SOLD)		110		7)		
							DEC	1 4 199	2			
	E MID DIT COLL		. 1						9	Met water species as M.L. (a)		
		red wi	th dirt			MC	0 Oil 8	Gas C	0111001			
							D .	التربيلسانداددادك				
Hauled off a	and cover		T LAM THE				Partn	er				OF THE
Hauled off a	and cover				COMPANI		AMAUTH	ORIZED BY SAL	ID COMPA	NY TO MAK	E THIS DE	PORT AND THAT THIS
Hauled off a ERTIFICATE: 1, THE UI Town Oil	and cover	STATE THA				Y, AND THAT I						PORT, AND THAT THIS
Hauled off a ERTIFICATE: I, THE UI Town Oil EPORT WAS PREPARED	and cover	STATE THA	AND DIRECTION			Y, AND THAT I						PORT, AND THAT THIS
ERTIFICATE: I, THE UI	and cover	STATE THA	AND DIRECTION	TAHL GNA	HEFACTS	Y, AND THAT I	REIN ARE	TRUE, CORREC				PORT, AND THAT THIS
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Hauled off a ERTIFICATE: I, THE UI TOWN Oil EPORT WAS PREPARED	and cover	STATE THA	AND DIRECTION	TAHL GNA	HEFACTS	Y, AND THAT I	REIN ARE	TRUE, CORREC				PORT, AND THAT THIS



MISSOURI DEPARTMENT OF NATURAL RESOURCES MISSOURI OIL AND GAS COUNCIL INJECTION WELL SCHEMATIC

Cass	PERMIT NUMBER	Pense Bros Drilling Co.	WELL NUMBER Honsinger 3-W
	4 -]1	
		120 of 04 surface	
		perfs 248-258	
	1/2/200	282' of 2 7/8"	
		DEC 14 1998 MO Oil & Gas Council	

INSTRUCTIONS

ON THE ABOVE SPACE DRAW A NEAT, ACCURATE SCHEMATIC DIAGRAM OF THE APPLICANT INJECTION WELL, INCLUDING THE FOLLOWING: CONFIGURATION OF WELL HEAD, TOTAL DEPTH OR PLUG BACK TOTAL DEPTH, DEPTH OF ALL INJECTION OR DISPOSAL INTERVALS, AND THEIR FORMATION NAMES, LITHOLOGY OF ALL FORMATIONS PENETRATED, DEPTHS OF THE TOPS AND BOTTOMS OF ALL CASING AND TUBING, SIZE AND GRADE OF ALL CASING AND TUBING, AND THE TYPE AND DEPTH OF PACKER, DEPTH, LOCATION, AND TYPE OF ALL CEMENT, DEPTH OF ALL PERFORATIONS AND SQUEEZE JOBS, AND GEOLOGIC NAME AND DEPTH TO BOTTOM OF ALL UNDERGROUND SOURCES OF DRINKING WATER WHICH MAY BE AFFECTED BY THE INJECTION. USE BACK IF ADDITIONAL SPACE IS NEEDED, OR ATTACH SHEET

Well #3-W

Farm: Honsinger Cass County, MO.

Lease Owner: Pense Bros Drilling Co., Inc

WELL LOG

Thickness		Total
of Strata	Formation	Depth
6	Soil & clay	6
5	Lime	11
10	Shale	21
31	Lime	52
8	Shale & slate	60
20	Lime	80
6	Shale & slate	86
1	Lime	87
2	Shale & slate	89
6	Lime	95 Hertha
6	Shale shells	101
19	Shale	120
14	Sand	134
72	Shale	206
7	Sand	213
25	Shale	238
2	Shale	240
3	Sand	243
1	Sandy lime	244
5	Lime	249
4	Sand	253
	Sand	255
2		257
2	Lime	
6	Sand	263
3	Sandy shale	266
29	Shale	295 TD

DEC 141998

MO Oil & Gas Council

MECHANICAL INITERITY TEST REPORT

RECEIVED

Test Date: 14 /	VOV-07	DEC 11 2007
Operator:	Town Oil Company, Inc. Lester Town 16205 West 287th St. Paola, Kar 913-294-2125	Oil & Gas Cour
Lease Honsinge County (ASS	Permit # 3-W Permit # 20650	
TEST INFORMATION:		
Type MIT: Pressure	Radioactive Tracer Survey	Temperature Survey
Start Time: End Time:	Run #1 Run #2 /2:30	Run #3
Length of Test: $/\ell$ (Start Time minus 1		
Initial Pressure (P. Ending Pressure (P. Pressure Change: (Initial Pressure)		
Fluid used for tes	t (water, nitrogen, co2, ect.): a	ir
Comments about tes		TD 272
that the above ind date shown at the Signed: Study Operator	P. Hambikee Eo R	elow, it is certified
DO NOT WRITE BELOW	THIS LINE	
State Agent:	isfactory Not Satisfactory eff FAQUES Witnessed: Yes	No_X_
Computer Update /	FILE WITH PERMIT!	OGC Misc Form 1

MECHANICAL INIECRITY TEST REPORT

RECEIVE

NOV 15 2002

rest Date: 4 Nov 2007		NOV 12 5005
	N	10 Oil & Gas Council
Contact Domon: Lostor Tour		The second secon
Address: 16205 West 287th St.	Paola, Kansas 660	71
hone: 913-294-2125	radia, Ranbab dod	
Lease HONSINGER Well # 30 County CASS Permit # 20	U 638 20650	
EST INFORMATION:		
ype MIT: Pressure / Radioactive Tracer St	urvey Tempera	ture Survey
Start Time: $\frac{12 \cdot 00}{12 \cdot 40}$ and Time: $\frac{12 \cdot 40}{12 \cdot 40}$	Run #2	<u>Run #3</u>
ength of Test: 40 min	40+ (248'x,4'	
initial Pressure (PSI): 146 H		
Pressure Change: [Initial Pressure minus Ending Pressure]		
Fluid used for test (water, nitrogen, CO2, e	ct.): Air	
Comments about test: Parlautions) .	248-258	TD-2721
248 ft of Fluid X143 = 106# +	40 H Back 1	Iresoure = 14
The bottom of the tested zone is shut in with at a depth of272ft. In signing the that the above indicated well was tested for date shown at the top of this page.	e form below, it mechanical integ	
Signed: Stelling P. Hainlinkle Operator Contact Person or Approved Agent	Title	
DO NOT WRITE BELOW THIS LINE		
Results were: Satisfactory Not Sati State Agent: Witnessed: REMARKS:	sfactory Yes No	
Computer Update FILE WITH PER		C Misc Form 1

CONSOLIDATED INDUSTRIAL SERVICES, INC. 211 W. 14TH STREET, CHANUTE, KS 66720 316-431-9210 or 800-467-8676

LOCATION Ottawa

FOREMAN Alan Made

TREATMENT REPORT

5-6-97 7823 Honsing	ger of		Cass. Mo. FORMATION		
CHARGE TO TOWN Oil	**************************************	OWNER			
MAILING ADDRESS 16205 W 28	87 St.	OPERATOR			
CITY Papla	Control of	CONTRACTOR TOWN			
STATE KS ZIP COI	DE 66071	DISTANCE TO LOCATION 45			
TIME ARRIVED ON LOCATION 10 130		TIME LEFT LOCATION 11', 3	2		
IOLE SIZE 55/8" WELL DATA		TYPE	OF TREATMENT		
OTAL DEPTH 295		[] SURFACE PIPE	[] ACID BREAKDOWN		
7704		F PRODUCTION CASING	[] ACID STIMULATION		
ASING SIZE 278			[] ACID SPOTTING		
CASING WEIGHT		[] SQUEEZE CEMENT			
CASING CONDITION		[] PLUG & ABANDON	[] FRAC		
UBING SIZE		[] PLUG BACK	[] FRAC + NITROGEN		
TUBING DEPTH		[] MISC PUMP	[] FOAM FRAC		
TUBING WEIGHT	Company of the Compan	[] OTHER	[] NITROGEN		
TUBING CONDITION					
ACKER DEPTH	The state of the s	PRES	SURE LIMITATIONS		
PERFORATIONS		SURFACE PIPE	HEORITICAL INSTRUCTED		
SHOTS/FT		ANNULUS LONG STRING	(100 - 100 -		
OPEN HOLE		TUBING			
TREATMENT VIA		RECEIV	AL (1)		
NSTRUCTIONS PRIOR TO JOB		DEC 14 199	8		
\$ 100 mm 1					
		MO Oil & Gas C	Council		
DESCRIPTION OF JOB EVENTS ES +abl;		ation with cla	en a water Mire		
DESCRIPTION OF JOB EVENTS ES +Gb/	Sh Cyclin	1 00 5	an alasminat		
1 D. I an Oen ISV II.	el follow	50 0 000	Si cieda vai		
		511 007 2 10001			
Mixed + pumped	385x 50/	pur anger	· C. PCAIAIRA C		
Mixed + pumped ? to surt. Pumped	2/2 rubb	per plug to pi	n at 275'.		
Mixed + pumped 3 to Surf. Pumped Well held 600#	2 /2 rubb for 30	per plug to pi	nat 275'. Closed valve.		
Mixed + pumped ? to surt. Pumped Well held 600#	for 30	per plug to pi	n at 275'. Closed valve.		
Mixed + pumped 3 to surf. fumped Well held 600#	2 /2 rybk for 30	her plug to pi nin MIT.	nat 275'. Closed valve.		
Mixed + pumped 3 to surf. Pumped Well held 600#		Alan Ma	n at 275'. Closed valve. Der		
		Alan Ma	ler		
BREAKDOWN or CIRCULATING	psi	Alan Ma	ler		
BREAKDOWN or CIRCULATING FINAL DISPLACEMENT ANNULUS	psi psi psi psi	Alan Mag TR BREAKDOWN BPM INITIAL BPM FINAL BPM	ler		
BREAKDOWN or CIRCULATING FINAL DISPLACEMENT ANNULUS MAXIMUM	pši psi psi psi psi	Alan Mag TR BREAKDOWN BPM INITIAL BPM FINAL BPM MINIMUM BPM	ler		
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BREAKDOWN or CIRCULATING FINAL DISPLACEMENT ANNULUS MAXIMUM MINIMUM AVERAGE ISIP 5 MIN SIP	psi	Alan Mag TR BREAKDOWN BPM INITIAL BPM FINAL BPM MINIMUM BPM MAXIMUM BPM AVERAGE BPM	EATMENT RATE		
BREAKDOWN or CIRCULATING FINAL DISPLACEMENT ANNULUS MAXIMUM MINIMUM AVERAGE ISIP	psi psi psi psi psi psi psi	Alan Ma BREAKDOWN BPM INITIAL BPM FINAL BPM MINIMUM BPM MAXIMUM BPM	EATMENT RATE		